

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions, and listings, of claims in the Application.

Listing of Claims:

Claims 1-21 (Canceled).

Claim 22. (Currently amended) A multi-mode communication device comprising:
a first receiver and transmitter for communicating via a first wireless communication network;

a second receiver and transmitter for communicating via a second wireless communication network;

at least one processor communicatively coupled to the first receiver and transmitter and the second receiver and transmitter, the at least one processor capable of establishing the ~~exchange~~ communication of information via at least one of the first wireless communication network and the second wireless communication network; ~~and~~

wherein the at least one processor evaluates a cost of use of a communication network and establishes the ~~exchange~~ communication of information based upon the ~~cost~~ cost; and

wherein the at least one processor directs delivery of buffered digital voice data to conversion circuitry for converting digital voice data to an analog voice stream for the reproduction of voice after a delay that is adjustable by the at least one processor to accommodate variations in propagation delays over a communication network.

Claim 23. (Previously presented) The device of claim 22 wherein the device further comprises at least one interface capable of accepting and delivering signals representative of voice.

Claim 24. (Previously presented) The device of claim 23 wherein the signals representative of voice are digital signals.

Claim 25. (Previously presented) The device of claim 22 wherein the first wireless communication network comprises a cellular communication network.

Claim 26. (Previously presented) The device of claim 22 wherein the second wireless communication network comprises a wireless local area network.

Claim 27. (Previously presented) The device of claim 22 wherein the second receiver and transmitter communicates via the second wireless communication network at a frequency of approximately 2.4 gigahertz.

Claim 28. (Previously presented) The device of claim 22 wherein the second receiver and transmitter communicates via the second wireless communication network using a spread spectrum technique.

Claim 29. (Previously presented) The device of claim 28 wherein the spread spectrum technique comprises a frequency hopping spread spectrum technique.

Claim 30. (Previously presented) The device of claim 22 wherein one of the first receiver and transmitter and second receiver and transmitter communicates using infrared signals.

Claim 31. (Previously presented) The device of claim 22 wherein the second receiver and transmitter communicate via the second wireless communication network using an Internet protocol (IP).

Claim 32. (Previously presented) The device of claim 31 wherein the Internet protocol (IP) is the transmission control protocol (TCP)/Internet protocol (IP).

Claim 33. (Previously presented) The device of claim 22 wherein at least one of the first receiver and transmitter and the second receiver and transmitter is disposed on a user removable circuit card.

Claim 34. (Previously presented) The device of claim 33 wherein the user removable circuit card is compliant with a Personal Computer Memory Card Interface Association (PCMCIA) or compatible standard.

Claim 35. (Previously presented) The device of claim 22 further comprising at least one image capture device.

Claim 36. (Previously presented) The device of claim 35 wherein the at least one image capture device comprises a thumbprint capture device.

Claim 37. (Previously presented) The device of claim 35 wherein the at least one image capture device comprises a video capture device.

Claim 38. (Previously presented) The device of claim 22 wherein the device is capable of directing visual feedback to a user.

Claim 39. (Previously presented) The device of claim 38 wherein the visual feedback is provided by a liquid crystal display (LCD).

Claim 40. (Previously presented) The device of claim 22 wherein the information comprises voice information.

Claim 41. (Previously presented) The device of claim 22 wherein at least a portion of the information comprises data unrelated to the exchange of voice information.

Claim 42. (Previously presented) The device of claim 22 wherein the at least one processor automatically routes an outgoing call over one of the first wireless communication network and the second wireless communication network.

Claim 43. (Previously presented) The device of claim 42 wherein the at least one processor routes an outgoing call over one of the first wireless communication network and the second wireless communication network based upon the cost of use of a communication network.

Claim 44. (Currently amended) A wireless network access device comprising:
a first receiver and transmitter for communication via a first wireless communication network;
a second receiver and transmitter for communication via a second wireless communication network;
at least one processor communicatively coupled to the first receiver and transmitter and the second receiver and transmitter, the at least one processor capable of establishing communication of information between the first wireless communication network and the second wireless communication network based upon a call setup request received from one of the first wireless communication network and the second wireless communication network;
a buffer for buffering digital voice data, the at least one processor directing delivery of the buffered digital voice data to conversion circuitry for converting digital voice data to an analog voice stream for the reproduction of voice after a delay that is adjustable by the at least one processor to accommodate variations in propagation delays over a communication network; and
a housing enclosing at least the first receiver and transmitter and the at least one processor.

Claim 45. (Previously presented) The device of claim 44 wherein one of the first wireless communication network and second wireless communication network comprise a cellular communication network.

Claim 46. (Previously presented) The device of claim 44 wherein one of the first wireless communication network and second wireless communication network comprise a wireless local area network.

Claim 47. (Previously presented) The device of claim 46 wherein the wireless local area network operates at a frequency of approximately 2.4 gigahertz.

Claim 48. (Previously presented) The device of claim 46 wherein the wireless local area network employs a spread spectrum mode of communication.

Claim 49. (Previously presented) The device of claim 48 wherein the spread spectrum mode of communication comprises a frequency hopping spread spectrum mode of communication.

Claim 50. (Previously presented) The device of claim 44 wherein at least one of the first receiver and transmitter and the second receiver and transmitter communicate using infrared signals.

Claim 51. (Previously presented) The device of claim 44 wherein the second receiver and transmitter communicate via the second wireless communication network using a Internet protocol (IP).

Claim 52. (Previously presented) The device of claim 51 wherein the Internet protocol (IP) is the transmission control protocol (TCP)/Internet protocol (IP).

Claim 53. (Previously presented) The device of claim 44 wherein at least one of the first receiver and transmitter and the second receiver and transmitter are disposed on a user removable circuit card.

Claim 54. (Previously presented) The device of claim 53 wherein the user removable circuit card is compliant with a Personal Computer Memory Card Interface Association (PCMCIA) or compatible standard.

Claim 55. (Previously presented) The device of claim 44 wherein the information comprises voice information.

Claim 56. (Previously presented) The device of claim 44 wherein at least a portion of the information is data unrelated to the exchange of voice information.

Claim 57. (Currently amended) A method of operating a communication device having a plurality of wireless communication interfaces, the method comprising:

detecting an action by a user;

determining a type of call based upon the user action;

evaluating a cost of use of a communication network;

selecting at least one wireless communication interface from the plurality of wireless communication interfaces based upon the type of call and the cost;

establishing call communication via the at least one wireless communication interface; and

~~exchanging~~ communicating information via the at least one wireless communication interface ~~interface~~ interface;

buffering digital voice data received via the at least one wireless communication interface; and

directing delivery of the buffered digital voice data to conversion circuitry for converting digital voice data to an analog voice stream for the reproduction of voice after a delay that is adjustable to accommodate variations in propagation delays of information received via the at least one wireless communication interface.

Claim 58. (Previously presented) The method of claim 57 wherein the plurality of wireless communication interfaces comprises a cellular communication network interface.

Claim 59. (Previously presented) The method of claim 57 wherein the plurality of wireless communications interfaces comprises a wireless local area network interface.

Claim 60. (Previously presented) The method of claim 57 wherein the at least one wireless communication interface communicates at a frequency of approximately 2.4 gigahertz.

Claim 61. (Previously presented) The method of claim 57 wherein the at least one wireless communication interface employs a spread spectrum mode of communication.

Claim 62. (Previously presented) The method of claim 57 wherein the at least one wireless communication interface communicates using an Internet protocol (IP).

Claim 63. (Previously presented) The method of claim 57 wherein the information exchanged is representative of voice.

Claim 64. (Previously presented) The method of claim 57 wherein at least a portion of the information comprises data unrelated to the establishment or maintenance of voice communication.

Claim 65. (Previously presented) The method of claim 57 wherein the type of call is one of a voice call, a data call, and a voice and data call.

Claim 66. (Cancelled).

Claim 67. (Previously presented) The method of claim 57 further comprising: capturing information representative of an image.

Claim 68. (Previously presented) The method of claim 67 wherein the image is one of video, a two dimensional code, a thumbprint, and handwriting.

Claim 69. (Previously presented) The method of claim 57 wherein action by a user comprises at least one of voice, a key press, and handwriting.

Claim 70. (Currently amended) A system supporting communication over a plurality of wireless networks, the system comprising:

first transceiver circuitry adapted for communication via a first wireless communication network;

second transceiver circuitry adapted for communication via a second wireless communication network; and

a processing circuit for evaluating a cost of use of a communication network and managing operation of the transceiver circuitry in order to establish voice communication via at least one of the first and second wireless communication networks, the processing circuit selecting one of the first and second wireless communication networks based upon at least one of a mode of communication and the cost of use of ~~[[a]] the first and second wireless communication network networks;~~

a buffer for buffering digital voice data; and

wherein the processing circuit directs delivery of buffered digital voice data to conversion circuitry for converting digital voice data to an analog voice stream for the reproduction of voice after a delay that is adjustable by the processing circuit to accommodate variations in propagation delays over the selected one of the first and second wireless communication networks.

Claim 71. (Previously presented) The system of claim 70 wherein the mode of communication comprises one of voice, data, and voice and data.

Claim 72. (Cancelled).

Claim 73. (Previously presented) The system of claim 70 comprising:

an image capture device for generating data for transmission.

Claim 74. (Currently amended) A system supporting communication over a plurality of wireless networks, the system comprising:

at least one processor operably coupled to a first receiver and transmitter for communication via a first wireless communication network and to a second receiver and transmitter for communication via a second wireless communication network, the at least one processor operating to, at least:

evaluate a cost of use of a communication network;

select one of the first wireless communication network and the second wireless communication network based upon at least one of a mode of communication and the cost of use of a communication network; and

manage operation of the first receiver and transmitter or the second receiver and transmitter, in order to establish voice communication via the selected one of the first wireless communication network and the second wireless communication network network;

buffer digital voice data communicated via the selected one of the first wireless communication network and the second wireless communication network; and

direct delivery of the buffered digital voice data to conversion circuitry for converting digital voice data to an analog voice stream for the reproduction of voice after a delay that is adjustable by the at least one processor to accommodate variations in propagation delays over the selected one of the first and second wireless communication networks.

Claim 75. (Previously presented) The system of claim 74 wherein the at least one processor is operably coupled to interface circuitry that accepts and delivers signals representative of voice.

Claim 76. (Previously presented) The system of claim 75 wherein the signals representative of voice are digital signals.

Claim 77. (Previously presented) The system of claim 74 wherein the first wireless communication network comprises a cellular communication network.

Claim 78. (Previously presented) The system of claim 74 wherein the second wireless communication network comprises a wireless local area network.

Claim 79. (Previously presented) The system of claim 74 wherein the second receiver and transmitter communicates via the second wireless communication network at a frequency of approximately 2.4 gigahertz.

Claim 80. (Previously presented) The system of claim 74 wherein the second receiver and transmitter communicates via the second wireless communication network using a spread spectrum technique.

Claim 81. (Previously presented) The system of claim 80 wherein the spread spectrum technique comprises a frequency hopping spread spectrum technique.

Claim 82. (Previously presented) The system of claim 74 wherein the second receiver and transmitter communicate via the second wireless communication network using an Internet protocol (IP).

Claim 83. (Previously presented) The system of claim 82 wherein the Internet protocol (IP) is the transmission control protocol (TCP)/Internet protocol (IP).

Claim 84. (Previously presented) The system of claim 74 wherein at least one of the first receiver and transmitter and the second receiver and transmitter is disposed on a user removable circuit card.

Claim 85. (Previously presented) The system of claim 84 wherein the user removable circuit card is compliant with a Personal Computer Memory Card Interface Association (PCMCIA) or compatible standard.

Claim 86. (Previously presented) The system of claim 74 wherein the at least one processor is operably coupled to at least one image capture device.

Claim 87. (Previously presented) The system of claim 86 wherein the at least one image capture device comprises a thumbprint capture device.

Claim 88. (Previously presented) The system of claim 86 wherein the at least one image capture device comprises a video capture device.

Claim 89. (Currently amended) The system of claim 74 wherein the at least one processor is operably coupled to a visual display.